

Affordable Integrated GPS-Actuator GN&C System for Small Launch Vehicles, Phase I

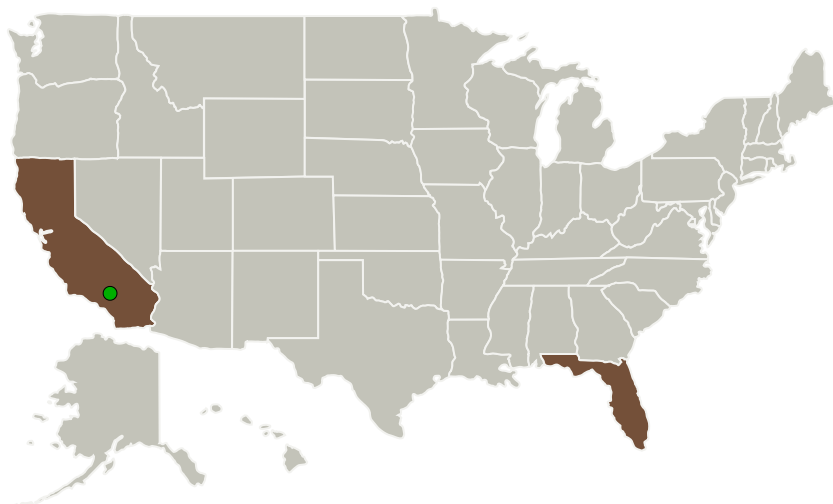
Completed Technology Project (2017 - 2017)



Project Introduction

A small launcher GNC system which maintains GPS fix while rotating, improves drift performance for COTS-based inertial sensors and provides efficient use of actuation system propellant. Provided in a package with components and systems already under development and proven in the space environment. Phase I will result in a flight test ready system

Primary U.S. Work Locations and Key Partners



Affordable Integrated GPS-Actuator GN&C System for Small Launch Vehicles, Phase I Briefing Chart Image

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Organizations Performing Work	Role	Type	Location
Micro Aerospace Solutions, Inc.	Lead Organization	Industry	Melbourne, Florida
● Armstrong Flight Research Center(AFRC)	Supporting Organization	NASA Center	Edwards, California

Primary U.S. Work Locations	
California	Florida

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Images



Briefing Chart Image

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(<https://techport.nasa.gov/image/128030>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Micro Aerospace Solutions, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

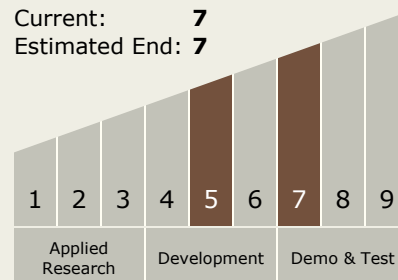
Carlos Torrez

Principal Investigator:

Donald W Platt

Technology Maturity (TRL)

Start: 5
Current: 7
Estimated End: 7



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Technology Areas

Primary:

- TX05 Communications, Navigation, and Orbital Debris Tracking and Characterization Systems
 - └ TX05.4 Network Provided Position, Navigation, and Timing
 - └ TX05.4.2 Revolutionary Position, Navigation, and Timing Technologies

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System